HORIZON 2020

Horizon 2020 Work programme 2016-2017 – Strategic programming and state of play

Dr Neville Reeve
DG Research and Innovation
What is Horizon 2020?

- **EU's biggest Research and Innovation funding programme (2014-2020); €77bn**
- A single programme bringing together three separate programmes/initiatives
- Delivering on EU priorities
  - Addressing people’s concerns about their livelihoods, safety and environment
  - Strengthening the EU’s global position in research, innovation and technology
Key features and novelties

- **Coupling research to innovation** – from research to retail, all forms of innovation
- **Focus on societal challenges** facing EU society, e.g. health, clean energy and transport
- **Simplified access**, for all companies, universities, institutes in all EU countries and beyond
- **FTI Pilot** (2015/2016)
€ 79 billion from 2014 to 2020 (excluding EFSI contribution)

HORIZON 2020 BUDGET (in current prices)

- Industrial Leadership: EUR 17.0 billion
- Societal Challenges: EUR 29.7 billion
- Excellent Science: EUR 24.4 billion
- European Institute of Innovation and Technology: EUR 2.7 billion
- Euratom (2014–2018): EUR 1.6 billion
- Other: EUR 3.2 billion
Innovation Investment Package (launched 9 July 2014)

- Partnerships with industry and Member States
- **EU contribution of €9 billion; €10 billion from the private sector and €4 billion from Member States**
- **Joint Technology Initiatives** (with industry, Article 187):
  - Innovative Medicines Initiative; Clean Sky (Aeronautics)
  - Fuel Cell and Hydrogen; Biobased industries; Electronic components and systems; Shift2Rail
- **Joint programmes** (with Member States, Article 185)
  - European and Developing Countries Clinical Trials Partnership (EDCTP); European Metrology Research Programme; Eurostars (for SMEs); Active and Assisted Living
SMEs in Horizon 2020

- **Integrated approach** - around 20% of the total budget for societal challenges and LEITs to go to SMEs
- **H2020 Simplification** of particular benefit to SMEs (e.g. single entry point)
- **A new SME instrument** used across all societal challenges as well as for the LEITs (7% target)
- A dedicated activity for **research-intensive SMEs in 'Innovation in SMEs'**
- **'Access to risk finance'** has strong SME focus (debt and equity facility)
Horizon 2020: Strategic Programming for the Work Programme

- Two year work programme with high degree of integration
- Work Programmes based on extensive consultation including independent Advisory Groups
- Strong engagement of Member States in setting priorities

Foresight and stakeholder consultation (Advisory Groups)
Consultation Member States
Determining strategic priorities
Elaboration of work programme
First Work Programme

- First Work Programme (2014/15) launched Dec 2013
- Challenge-based approach giving applicants considerable freedom to come up with innovative solutions
- Strong innovation focus
- €15 bn. Investment in calls
First calls – overall statistics (for calls closed 1 Dec 2014)

- More than 31,000 eligible proposals submitted (not incl. first stage of two stage calls)
- More than 120,000 proposal applicants
- €53,4 bn. EU financial contribution requested
- 11,000 unique experts to evaluate these proposals
- High number of applications = lower success rates compared to FP7 (number of applications and requested EU financial contribution)
  - Success rate (proposals) - 13.9%
  - Success rate for requested EU financial contribution - 14.4% (x7oversubscription)
First calls – grants signed (by 30 April 2015)

- Over 3,200 grants signed
- €6.5 bn. total value of grants signed (projects)
- EU financial contribution: €5.4 bn.
- Time-to-grant (excl. ERC): 95% of grants have been signed within 8 months
First calls: conclusions

- **Higher numbers of applications** (compared to FP7); 20% applicants are newcomers

- **Oversubscription** (requires continuous monitoring; target of 3:1 success for 2nd stage in WP 2016/17)

- **Industry participation up; reaching the 20% SME target**

- **Third country participation down** (emphasis on international dimension in WP 2016/17)

- **Need greater pool of evaluation experts** (esp. women, private sector)
European Fund for Strategic Investment

- Commission proposal to address current low level of EU investment - removing obstacles, providing technical assistance - smarter use of new and existing financial resources
  - mobilising investments of at least €315 billion in three years
  - supporting investment in the real economy
  - creating an investment friendly environment
- Trilogue between EU co-legislators saw agreement for redeployment of €2.2 bn. from Horizon 2020; no impact on ERC, MSCA and Widening budgets
- Opportunity for R&I investment to projects from Horizon 2020 and previous programmes e.g. high risk, high reward
Work Programme 2016-2017 (1)

- Based on strategic programming approach
- Contribution to the Jobs, Growth and Investment Package

- Support to other European policy areas, notably
  - Energy Union;
  - Digital Single Market;
  - Strengthening the industrial base (key enabling technologies)
Work Programme 2016-2017 (2)

- **€15 bn. investment**
- **Challenge-based**
  - Non-prescriptive language of topics and calls
  - Support across the innovation cycle
  - Emphasis on exploitation and impacts
- **Incorporating lessons learned from WP 2014-15**
- **First calls by early October (ERC in July)**
Next steps - evaluation

• **Independent assessment providing vital contribution to effective programme implementation and future policy**

• **Addressing all aspects of programme implementation including instruments, results and impacts**
  - Quantitative and qualitative analysis including indicators

• **Ex post evaluation of FP7 by end of 2015**

• **Interim evaluation of Horizon 2020 by end of 2017**
  - Will contribute ideas to what might follow H2020
Next steps - Consultations on simplification

- Further simplification in the context of the Commission agenda for Better Regulation

- Building on H2020 simplifications (single set of participation rules; simplified funding rates; time-to-grant of 8 months...;) feedback exercises to gather evidence:
  - online survey of applicants to 2014-15 calls taking stock of their experiences with rules, processes and systems etc.
  - workshops with national research and innovation funders for identifying and exchanging best practice
For further information

• **Participant Portal**

• **Helpdesk**
  http://ec.europa.eu/research/enquiries

• **Expert evaluators needed!**

• **Learn more about Horizon 2020**
  http://ec.europa.eu/horizon2020

Thank you for your attention!
Neville.Reeve@ec.europa.eu